

# Converting Colors

XYZ(49.0169, 56.7801, 8.3762)

Have a look what the booklet for  
XYZ(49.0169, 56.7801, 8.3762)  
contains.

<b>XYZ(48.8521, 56.5372, 8.3380)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(48.8521, 56.5372,  
8.3380)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D6CA00
RGB	214, 202, 0
RGB Percent	84%, 79%, 0%
CMY	0.1608, 0.2078, 0.9999
CMYK	0.00, 0.06, 1.00, 0.16
HSL	57°, 100%, 42%
HSV	57°, 100%, 84%
XYZ	48.8521, 56.5372, 8.3380
YIQ	182.5600, 71.9940, -60.2780

# Conversions

## Conversions Part 2

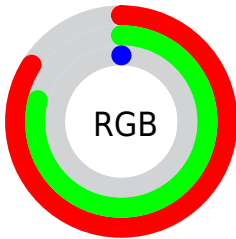
<b>Format</b>	<b>Color</b>
<b>RYB</b>	13, 214, 0
Decimal	14076416
CIELab	79.92, -12.93, 80.45
CIELCh	80, 81.478, 99.129
Yxy	56.5372, 0.4296, 0.4971
Android (android.graphics.Color)	4292266496 (0xFFD6CA00)
YUV	182.5600, -90.0021, 27.5729
Hunter-Lab	75.1912, -15.6123, 46.0592

# Details

The XYZ color **48.8521, 56.5372, 8.3380** is a dark color, and the websafe version is hex **CCCC00**. The color can be described as middle washed yellow. A complement of this color would be **12.2695, 5.1185, 63.9591**, and the grayscale version is **45.2210, 47.5760, 51.8103**.

A 20% lighter version of the original color is **78.6397, 93.4359, 22.4845**, and **24.1075, 28.1484, 4.1626** is the 20% darker color. If you saturate the color by 10%, you get **48.8529, 56.5392, 8.3383**, and if you desaturate by 10%, it is **49.2751, 57.1607, 9.1663**.

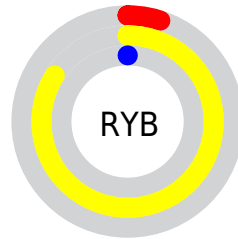
# Distribution



Red (84%)

Green (79%)

Blue (0%)



Red (5%)

Yellow (84%)

Blue (0%)

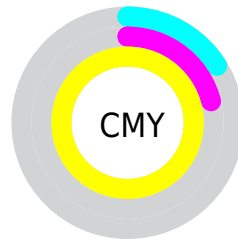


Cyan (0%)

Magenta (6%)

Yellow (100%)

Black (16%)



Cyan (16%)

Magenta (21%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8521, 56.5372, 8.3380 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 48.8521, 56.5372, 8.3380 by changing the saturation by 10% instead.



■ 48.8521, 56.5372,  
8.3380

■ 48.8521, 56.5372,  
8.3380

372.6864,  
411.7129, 188.3921

■ 34.7162, 40.6338,  
4.2211

■ 87.6738, 99.7896,  
23.1755

■ 23.6098, 28.0330,  
1.7474

■ 113.0903,  
127.9074, 34.7331

■ 15.1676, 18.3506,  
0.3929

■ 142.9978,  
160.8654, 49.6081

■ 9.0242, 11.2020,  
0.0000

■ 177.7615,  
199.0480, 68.2190

■ 4.8142, 6.2029,  
0.0000

■ 217.7469,  
242.8397, 90.9843

■ 2.1723, 2.9688,  
0.0000

■ 263.3193,

■ 0.7281, 1.1155,

292.6248, 118.3225

0.0000

314.8440,  
348.7877, 150.6523

■ 0.0000, 0.0000,  
0.0000

■ 48.8521, 56.5372,  
8.3380

■ 48.8521, 56.5372,  
8.3380

■ 48.8529, 56.5392,  
8.3383

■ 49.2751, 57.1607,  
9.1663

■ 49.8534, 57.8476,  
10.8068

■ 50.6393, 58.6211,  
13.5300

■ 51.6613, 59.4925,  
17.4853

■ 52.9431, 60.4714,  
22.7983

■ 54.5058, 61.5662,  
29.5794

■ 56.3682, 62.7844,  
37.9275

■ 58.5474, 64.1329,  
47.9331

■ 61.0593, 65.6180,  
59.6796

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



65.8687, 56.5372, 9.6742



48.8521, 56.5372, 8.3380



36.0776, 56.5372, 14.5167

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.8521, 56.5372, 8.3380



32.6675, 56.5372, 138.6826



89.2247, 56.5372, 99.9973

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



48.8521, 56.5372, 8.3380



12.2695, 5.1185, 63.9591

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



76.3832, 56.5372, 162.5526



48.8521, 56.5372, 8.3380



43.1945, 56.5372, 191.7217

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.8521, 56.5372, 8.3380



28.0766, 56.5372, 77.1537



58.9370, 56.5372, 202.1802



91.6041, 56.5372, 48.2221



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.8521, 56.5372, 8.3380



30.8202, 56.5372, 25.6809



58.9370, 56.5372, 202.1802



85.8791, 56.5372, 121.0421

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



48.8534, 56.5399, 8.3391



83.7335, 93.3091, 55.9804



27.8129, 14.3291, 1.7257



17.6593, 19.8025, 10.7946



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.8534, 56.5399, 8.3391



72.6087, 83.9973, 12.3862



31.9705, 52.1778, 8.3870



13.4104, 14.3951, 13.2324



29.5547, 34.2266, 5.0487



1.8012, 2.1016, 0.3107



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



12.2695, 5.1185, 63.9591



18.2110, 7.5420, 95.1037



16.6264, 7.1695, 64.1254



11.7979, 12.1192, 15.6549



7.4403, 3.1424, 38.6676

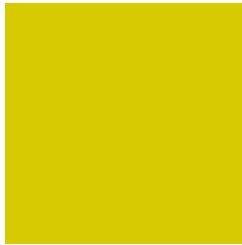


0.4689, 0.2297, 2.3389



# Previews

## White Background



This preview shows how the XYZ color 48.8521, 56.5372, 8.3380 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8521, 56.5372, 8.3380 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.8521, 56.5372, 8.3380**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8521, 56.5372, 8.3380.



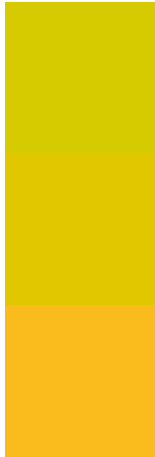
This preview shows how white text looks on a background with the XYZ color 48.8521, 56.5372,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

48.8521, 56.5372, 8.3380

### Protanopia

51.1639, 56.6941, 8.2464

### Deuteranopia

57.6172, 56.3743, 8.9432



## Tritanopia

60.0079, 56.3995, 63.6005

# Trichromacy



## Original Color

48.8521, 56.5372, 8.3380

## Protanomaly

50.1695, 56.5242, 8.2660

## Deuteranomaly

54.1042, 56.1881, 8.5661

## Tritanomaly

53.1566, 55.2545, 28.6324

# Monochromacy



## Original Color

48.8521, 56.5372, 8.3380

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

43.8140, 49.5572, 23.7792

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8521, 56.5372, 8.3380 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(214, 202, 0)` looks like.

```
.text, #text, p{  
    color:rgb(214, 202, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(214, 202, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 202, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8521, 56.5372, 8.3380 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(214, 202, 0) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(214, 202, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(214, 202, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 202, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 202, 0);  
box-shadow:4px 4px 4px 4px rgb(214, 202,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8521, 56.5372, 8.3380 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 202, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(214,  
202, 0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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